

**Table 1.** Potential contributing areas for combined infiltration- and saturation-excess overland flows for selected subbasins in Kansas

[P, soil permeability, in inches per hour; TWI, topographic wetness index]

			Potential contributing area, in percentage of subbasin, for selected potential-runoff conditions					
Subbasin number (fig. 1)	Mean P	Mean TWI	Very high potential runoff <sup>1</sup>	High potential runoff <sup>2</sup>	Moderate potential runoff <sup>3</sup>	Low potential runoff <sup>4</sup>	Very low potential runoff <sup>5</sup>	Extremely low potential runoff <sup>6</sup>
Cimarron River Basin								
1	3.7	12.9	91.6	73.8	54.9	44.2	8.5	2.8
2	1.7	13.8	99.2	96.4	86.9	82.9	45.8	5.0
Kansas-Lower Republican River Basin								
3	.6	12.7	97.4	97.4	97.4	97.4	93.4	37.1
4	.4	12.5	100	100	100	100	99.6	90.8
5	1.1	12.9	100	99.5	99.4	96.5	20.8	3.9
6	.5	12.6	100	100	99.5	99.5	99.5	40.2
7	.4	12.7	100	100	100	100	95.9	95.7
8	.7	12.3	99.9	99.9	99.9	99.9	98.8	2.9
9	.4	12.4	100	100	100	100	93.0	91.8
10	.8	12.8	99.7	99.7	99.7	99.7	82.7	5.8
11	.5	12.0	100	100	99.8	99.8	96.2	13.5
12	.9	12.6	100	100	100	100	69.9	3.7
13	1.2	13.0	99.8	97.7	93.9	92.3	70.4	4.6
14	1.4	13.0	98.2	94.8	91.5	85.3	50.0	5.2
15	.6	12.7	100	100	97.0	95.7	84.0	83.4
16	0.5	12.8	100	100	100	99.9	93.7	66.4
17	.6	12.2	98.9	97.0	95.3	94.8	94.6	77.9
18	.8	12.9	99.3	99.3	99.3	98.4	84.0	18.8
19	.6	12.6	96.2	96.2	96.2	96.2	88.2	38.6
20	1.3	12.7	98.5	98.5	98.5	91.7	8.8	4.3
21	.6	12.4	100	100	98.1	97.3	96.5	3.5
Lower Arkansas River Basin								
22	1.5	13.5	99.9	97.2	95.5	75.6	40.4	4.9
23	1.8	13.6	99.3	95.0	89.8	79.3	14.5	5.4
24	2.1	14.1	100	98.0	90.0	83.0	10.2	2.2
25	.5	12.7	99.9	99.9	99.9	99.9	99.9	21.7
26	2.8	13.4	99.8	92.0	85.4	82.0	74.4	4.3

**Table 1.** Potential contributing areas for combined infiltration- and saturation-excess overland flows for selected subbasins in Kansas—Continued

Subbasin number (fig. 1)	Mean P	Mean TWI	Potential contributing area, in percentage of subbasin, for selected potential- runoff conditions					
			Very high potential runoff <sup>1</sup>	High poten- tial runoff <sup>2</sup>	Moderate potential runoff <sup>3</sup>	Low potential runoff <sup>4</sup>	Very low potential runoff <sup>5</sup>	Extreme- ly low potential runoff <sup>6</sup>
Lower Arkansas River Basin—Continued								
27	2.5	12.4	89.8	78.2	73.1	52.2	26.4	3.2
28	2.9	12.3	88.2	71.6	63.0	54.1	21.1	3.8
29	5.1	13.7	98.4	85.3	69.5	24.1	13.2	3.7
30	.9	13.9	100	99.1	98.8	98.8	98.4	5.7
31	3.6	13.1	97.5	86.0	76.5	56.2	10.7	2.7
32	3.0	13.4	99.2	88.9	83.1	26.5	21.5	6.0
33	.8	13.7	100	100	100	100	100	5.3
Marais des Cygnes River Basin								
34	0.6	12.6	100	100	100	100	92.2	23.4
35	.5	12.7	99.0	99.0	99.0	99.0	92.7	79.0
36	.5	12.5	98.7	98.7	98.7	98.7	89.9	44.3
37	.7	12.9	100	100	100	100	75.7	9.4
38	.4	12.7	98.4	98.4	98.4	98.4	95.6	83.5
39	.9	12.7	100	100	100	96.8	37.8	5.9
40	.6	12.9	100	100	100	100	93.6	42.1
41	.5	12.9	100	100	100	100	93.6	63.4
Missouri River Basin								
42	.6	12.1	100	100	100	100	98.0	1.0
43	.7	12.3	100	100	100	100	88.0	1.1
44	.4	12.5	95.5	95.5	95.5	95.5	93.1	89.0
45	.5	12.7	97.4	97.4	97.4	97.4	96.1	71.9
46	.9	12.6	100	100	100	100	36.1	31.4
Neosho River Basin								
47	1.1	13.6	100	100	100	100	11.5	5.4
48	.5	12.5	100	100	100	100	95.6	32.1
49	.6	12.9	100	100	100	100	91.5	18.3
50	.8	13.1	99.3	99.3	99.3	99.3	84.2	4.5
51	.6	13.2	100	100	100	99.9	81.6	48.6
52	.4	12.6	98.5	98.5	98.5	98.5	94.9	48.2
53	.7	13.1	99.7	99.7	99.7	99.7	76.4	9.1
Smoky Hill-Saline River Basin								
54	1.2	12.9	100	100	100	95.0	21.4	6.2

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Subbasin number (fig. 1)	Mean P	Mean TWI	Potential contributing area, in percentage of subbasin, for selected potential- runoff conditions					
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Smoky Hill-Saline River Basin—Continued								
55	1.0	12.5	99.9	99.8	95.4	94.3	64.1	4.3
56	1.2	12.1	100	100	100	99.5	5.3	1.5
57	1.3	12.9	99.9	99.9	99.9	99.7	10.6	5.9
58	1.4	13.1	98.7	98.2	98.0	92.0	9.8	5.9
59	.5	12.7	100	100	100	100	100	14.2
60	1.1	12.5	100	100	100	100	16.6	3.4
61	1.4	12.7	99.5	99.5	99.5	82.1	9.2	5.4
62	1.5	12.9	99.6	98.3	97.1	91.4	10.2	4.9
63	1.7	12.7	98.7	97.7	97.2	77.9	8.4	5.3
64	1.1	12.6	100	100	100	96.0	8.4	3.1
Solomon River Basin								
65	1.3	12.5	99.6	99.6	99.6	94.9	9.5	3.8
66	1.5	12.9	99.5	97.4	97.1	79.5	10.9	4.6
67	1.2	12.7	100	100	100	96.2	8.5	2.7
68	1.3	12.7	99.8	99.8	99.8	90.7	8.9	4.7
69	1.2	12.6	100	100	100	95.1	8.4	3.7
70	.9	12.8	100	100	100	100	76.6	5.7
71	1.1	12.4	100	100	100	100	12.0	3.8
72	1.1	13.2	98.5	98.1	97.8	96.5	30.4	4.9
73	1.3	12.6	99.9	99.9	99.9	90.3	7.8	4.5
74	1.5	12.8	99.6	97.8	97.1	76.1	8.6	4.3
Upper Arkansas River Basin								
75	1.1	13.0	100	100	98.8	92.9	35.2	4.1
76	1.1	13.2	100	99.8	98.9	98.7	19.7	4.3
77	1.2	13.1	100	99.9	98.9	95.2	9.3	4.5
Upper Republican River Basin								
78	1.3	12.9	99.9	99.3	99.0	91.4	9.8	5.6
79	1.4	12.9	99.6	98.5	98.0	93.8	8.8	4.8
80	1.4	12.9	99.8	97.9	97.4	97.0	9.6	5.4

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			Very high potential runoff <sup>1</sup>	High poten- tial runoff <sup>2</sup>	Moderate potential runoff <sup>3</sup>	Low potential runoff <sup>4</sup>	Very low potential runoff <sup>5</sup>	Extreme- ly low potential runoff <sup>6</sup>
Verdigris River Basin								
81	.8	13.2	100	100	100	100	58.5	7.3
82	.8	12.8	100	100	100	100	61.7	5.5
83	.7	12.8	100	100	100	95.0	84.7	26.6
84	.5	12.3	99.9	99.9	99.9	99.8	95.1	29.7
85	.8	12.5	98.3	98.3	98.3	98.3	49.7	28.8
86	.8	13.2	100	100	100	100	91.1	5.6
87	.5	12.8	99.6	99.6	99.6	99.6	90.7	44.4
Walnut River Basin								
88	.5	12.8	100	100	100	100	93.6	37.7
89	.5	13.3	100	100	100	100	100	31.9
90	.5	13.2	99.1	99.1	99.1	99.1	95.9	94.5
91	.5	13.4	100.0	100	100	100	92.5	77.2

<sup>1</sup> Very high potential runoff = soil permeability less than or equal to 3.38 inches per hour and topographic wetness index greater than or equal to 10.4.

<sup>2</sup> High potential runoff = soil permeability less than or equal to 2.76 inches per hour and topographic wetness index greater than or equal to 12.1.

<sup>3</sup> Moderate potential runoff = soil permeability less than or equal to 2.14 inches per hour and topographic wetness index greater than or equal to 13.8.

<sup>4</sup> Low potential runoff = soil permeability less than or equal to 1.52 inches per hour and topographic wetness index greater than or equal to 15.6.

<sup>5</sup> Very low potential runoff = soil permeability less than or equal to 0.90 inch per hour and topographic wetness index greater than or equal to 17.3.

<sup>6</sup> Extremely low potential runoff = soil permeability less than or equal to 0.45 inch per hour and topographic wetness index greater than or equal to 19.0.